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National Standard of the People's Republic of China

GB/T 5213-2008

Replace GB/T 5213-2001

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## 冷轧低碳钢板及钢带

### **Cold Rolled Low Carbon Steel Sheet and Strip**

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Issued by the General Administration of Quality Supervision, Inspection and Quarantine of the  
People's Republic of China & National Standardization Administration Committee of China

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## Forward

According to the manufacturing and application situation of cold rolled low carbon steel sheet and strip in China, meanwhile, refers to EN 10130: 2006 *Cold rolled low carbon steel flat products for cold forming. Technical delivery conditions* (English Version), to revise the GB/T 5213-2001 *Cold rolled sheets and strips for deep drawing*.

This Standard will replace GB/T 5213-2001 *Cold rolled sheets and strips for deep drawing*.

Comparison with GB/T 5213-2001, main changes of this Standard are as follows:

- Changed the title of standard as *Cold rolled low carbon steel sheet and strip*;
- Changed the representation method of designation;
- Added the DC01, DC03 for general use and punching as well as DC07 for deep-drawing steel;
- Changed the level of surface quality from two to three;
- The dimension, shape, weight and permissible deviation direct adopts GB/T 708;
- Adjusted the specified in chemical composition;
- Cancelled the specified in F, HF and ZF of SC1 as per drawing as well as the specified in erichsen, bending and metallographic;
- Added the requirements for roughness *Ra* in surface structural;
- For product of delivery as steel strip condition, adjusted the length with defect on surface from 8% to 6%.

Annex A and Annex B of this Standard are informative annex.

This Standard is proposed by China Iron and Steel Association, CISA.

This Standard is under jurisdiction of National Steel Standardization Technical Committee;

Main draft unit of this Standard is Baoshan Iron & Steel Co., Ltd.

Participate units of this Standard are Angang Steel Company Limited, Maanshan Iron & Steel Company Ltd and China Metallurgical Information and Standardization Institute.

Main drafters of this Standard are Li Yuguang, Tu Shulin, Xu Hongwei, Sun Zhongming, Wang Xiaohu, Yang Xingliang, Shi Hongyan, Yu Chengfeng and Huang Jinhua.

This Standard replaces the previous normative versions:

- GB/T 5213-1985, GB/T 5213-2001.

# Cold rolled low carbon steel sheet and strip

## 1 Scope

This Standard specifies the classification and code for cold rolled low carbon steel sheet and strip as well as dimension, shape, weight, technical requirements, inspection and test, packaging, marking and quality certificate, etc.

This Standard is applicable to cold rolled low carbon steel sheet and strip of thickness is 0.30mm to 3.5mm for automobile and appliance, etc.

## 2 Normative References

The clauses in the following documents have been quoted and become that of this standard. For any cited documents with dates, all the subsequent modifications (excluding corrections) or revised versions do not apply to this standard. However, parties having reached an agreement based on this standard are encouraged to study whether the latest versions of these documents are applicable. For cited documents without a date, their latest versions apply to this standard.

GB/T 223.9 Methods for chemical analysis of iron, steel and alloy The chrom azurol S

GB/T 223.16 Methods for chemical analysis of iron, steel and alloy--The chromotropic acid photometric method for the determination of titanium content

GB/T 223.17 Methods for chemical analysis of iron, steel and alloy--The dianitropyryl methane photometric method for the determination of titanium content

GB/T 223.40 Methods for chemical analysis of iron, steel and alloy--The anion-exchange separation-sulphochlorophenol S photometric method for the determination of niobium content

GB/T 223.59 Methods for chemical analysis of iron, steel and alloy -- The sodium arsenite-sodium nitrite titrimetric method for the determination of phosphorus content

GB/T 223.63 Methods for chemical analysis of iron, steel and alloy -- The sodium (potassium) periodate photometric method for the determination of manganese content

GB/T 223.64 Methods for chemical analysis of iron, steel and alloy -- The flame atomic absorption spectrometric method for the determination of manganese content

GB/T 228 Metallic materials--Tensile testing of room temperature (GB/T 228-2002, eqv ISO 6892:1992)

GB/T 247 General rule of package mark and certification for steel plates (sheets) and strips

GB/T 708 Dimension shape weight and tolerance for cold-rolled steel plates and sheets

GB/T 2523 Cold rolled sheet (strip)-Measuring method for surface roughness

GB/T 2975 Steel and Steel Products -Location and Preparation of Test Pieces for Mechanical Testing

GB/T 4336 Method for Photoelectric Emission Spectroscopic Analysis of Carbon Steel Medium and Low Alloy Steel

GB/T 5027 Metallic materials—Sheet and strip—Determination of plastic strain ratio (GB/T 5028-1999, eqv ISO 10275: 1993)

GB/T 8170 Rules of rounding off for numerical values

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